IN THE SPECIFICATION:

Please substitute pages 1, 2, 3 and 4 of the International Application with the attached amended pages 1, 2, 3 and 4.

Submitted herewith is a copy of the specification as reformatted and filed in parent Application Serial No. 09/563,048.

The last paragraph beginning on page 5, line 18, and continuing on to page 6 of the specification is substituted with the following rewritten paragraph.

Figure 1: Nucleotide sequence of the protein coding (sense) strand of the *X. nematophilus* DNA insert of clone toxb4 (SEQ ID NO: 5). The translation initiation codon (ATG) at nucleotide position 17-19 and the translation termination codon (TAA) at nucleotide position 1121-1123 are indicated by shaded boxes. Locations of oligonucleotide sequences used for sequencing primer design are indicated by arrows and a primer name (TOX F2 (SEQ ID NO: 7), TOX F1 (SEQ ID NO:8), TOX R3 (SEQ ID NO:9) ~~etc.~~, TOX F3 (SEQ ID NO:10), TOX R4 (SEQ ID NO:11), A24AC1 (SEQ ID NO:12)). Arrows directed left-to-right, positioned above the sequence indicate sense-strand primers, arrows directed right-to-left, positioned below the sequence indicate anti-sense primers.

The first full paragraph on page 6, lines 4-7, of the specification is replaced with the following rewritten paragraph.

Figure 2: Deduced sequence of the 368 amino acid toxb4 protein from *X. nematophilus* strain A24, derived by conceptual translation of the long open reading frame commencing at nucleotide position 17 and ending at nucleotide position 1120 of the *toxb4* gene sequence (Fig. 1)

(SEQ ID NO: 3).--

The last full paragraph on page 6, lines 15-21, of the specification is replaced with the following rewritten paragraph.

Figure 4: Nucleotide sequence of the protein coding (sense) strand of the *P. luminescens Hin*d III/*Sma* I DNA fragment (SEQ ID NO:6). Translation initiation (ATG) and termination (TGA) codons are indicated by shaded boxes. Locations of oligonucleotide sequences used for sequencing primer design are indicated by arrows and a primer name as described in the brief description of Fig. 1 (AC4R (SEQ ID NO:13), AC2F (SEQ ID NO:14), AC7R (SEQ ID NO:15), AC6F (SEQ ID NO:16), AC5R (SEQ ID NO:17), AC3F (SEQ ID NO:18), AC8R (SEQ ID NO:19), and V16AC1 (SEQ ID NO:20)). Restriction enzyme sites used for sub-cloning and identification of sequences necessary for toxin activity are underlined and label[l]ed on the figure.

The last paragraph starting on page 6, line 23, and continuing onto page 7 of the specification is replaced with the following rewritten paragraph.

Figure 5: Deduced sequence of the 335 amino acid PlV16tox1 protein from *P. luminescens* strain V16/1, derived by conceptual translation of the long open reading frame commencing at nucleotide position 172 and ending at nucleotide position 1179 of the *Hin*d III/*Sma* I restriction enzyme fragment (Fig. 4) (SEQ ID NO:4).--

The first complete paragraph on page 7, lines 4-8, of the specification is replaced with the following rewritten paragraph.

Figures 6 A and 6B: Alignment of the nucleotide sequences encompassing the protein open reading frames of the *X. nematophilus* strain A24*toxb4* gene (SEQ ID NO:1) and the *P. luminescens* strain V16/1 *PlV16tox1* gene (SEQ ID NO:2) using the Gap program of the GCG computer software package. The *X. nematophilus* sequence is the upper line and the *P. luminescens* sequence is the lower line.

The second complete paragraph on page 7, lines 10-14, of the specification is replaced with the following rewritten paragraph.

Figure 7: Alignment of the deduced protein sequences of the extended open reading frames encoding the *X. nematophilus* A24 toxb4 protein (SEQ ID NO:3) and the *P. luminescens* strain V16/1 PlV16tox1 protein (SEQ ID NO:4) using the Gap program of the GCG computer software package. The *X. nematophilus* sequence is the upper line and the *P. luminescens* sequence is the lower line.

IN THE DRAWINGS

Figures 6A and 6B are replaced with the attached amended formal drawings of Figures 6A and 6B

IN THE SEQUENCE LISTING

Please replace pages 34-43 of the specification a copy of the attached substitute Sequence Listing.